

## CLAIMS

1. An enterprise evaluation device, comprising:

technical document acquisition means for acquiring

5 technical documents such as publications of unexamined patent applications or registered patents from a technical document database;

total number of inventions per technical field extraction means for classifying the acquired technical documents into

10 respective technical fields such as IPC sub-classes or keywords, and for extracting the total number of inventions per technical field such as the total number of patent applications per technical field or the total number of claims filed per technical field;

15 number of inventions per technical field and per enterprise extraction means for classifying the acquired technical documents into respective enterprises such as applicants and into respective technical fields such as IPC sub-classes or keywords, and for extracting the number of  
20 inventions per enterprise and per technical field such as the number of patent applications per enterprise and per technical field or the number of claims filed per enterprise and per technical field;

oligopoly score per technical field calculation means for  
25 calculating number-of-inventions share per technical field and per enterprise through dividing the number of inventions per

enterprise and per technical field by the total number of inventions per technical field, and for accumulating the number-of-inventions share per technical field and per enterprise powered by  $k_a$  (wherein  $k_a > 1$ ) for each enterprise having at least one invention in a predetermined technical field, thereby calculating the oligopoly score per technical field; and

output means for outputting the calculated oligopoly score per technical field to display means, printing means, recording medium, or another telecommunications device via a communication line.

2. An enterprise evaluation device, comprising:

technical document acquisition means for acquiring technical documents such as publications of unexamined patent applications or registered patents from a technical document database;

total number of inventions per technical field extraction means for classifying the acquired technical documents into respective technical fields such as IPC sub-classes or keywords, and for extracting the total number of inventions per technical field such as the total number of patent applications per technical field or the total number of claims filed per technical field;

number of inventions per technical field and per enterprise extraction means for classifying the acquired

technical documents into respective enterprises such as applicants and into respective technical fields such as IPC sub-classes or keywords, and for extracting the number of inventions per enterprise and per technical field such as the number of patent applications per enterprise and per technical field or the number of claims filed per enterprise and per technical field;

oligopoly score per technical field calculation means for calculating number-of-inventions share per technical field and per enterprise through dividing the number of inventions per enterprise and per technical field by the total number of inventions per technical field, and for accumulating the number-of-inventions share per technical field and per enterprise powered by  $k_a$  (wherein  $k_a > 1$ ) for each enterprise having at least one invention in a predetermined technical field, thereby calculating the oligopoly score per technical field;

oligopolistic state per technical field judgment means for comparing a predetermined threshold with the calculated oligopoly score per technical field, and for judging whether the number of inventions in the predetermined technical field is in an oligopolistic state of a specific enterprise, or a competitive state of numerous enterprises; and

output means for outputting an index showing the oligopolistic state or the competitive state judged by the oligopolistic state per technical field judgment means to

display means, printing means, recording medium, or another telecommunications device via a communication line.

3. An enterprise evaluation device, comprising:

5 technical document acquisition means for acquiring technical documents such as publications of unexamined patent applications or registered patents from a technical document database;

total number of inventions per technical field extraction  
10 means for classifying the acquired technical documents into respective technical fields such as IPC sub-classes or keywords, and for extracting the total number of inventions per technical field such as the total number of patent applications per technical field or the total number of claims  
15 filed per technical field;

number of inventions per technical field and per enterprise extraction means for classifying the acquired technical documents into respective enterprises such as applicants and into respective technical fields such as IPC  
20 sub-classes or keywords, and for extracting the number of inventions per enterprise and per technical field such as the number of patent applications per enterprise and per technical field or the number of claims filed per enterprise and per technical field;

25 oligopoly score per technical field calculation means for calculating number-of-inventions share per technical field and

per enterprise through dividing the number of inventions per enterprise and per technical field by the total number of inventions per technical field, and for accumulating the number-of-inventions share per technical field and per

5 enterprise powered by  $k_a$  (wherein  $k_a > 1$ ) for each enterprise having at least one invention in a predetermined technical field, thereby calculating the oligopoly score per technical field;

oligopolistic state per technical field judgment means  
10 for comparing a predetermined threshold with the calculated oligopoly score per technical field, and for judging whether the number of inventions in the predetermined technical field is in an oligopolistic state of a specific enterprise, or a competitive state of numerous enterprises;

15 display data generation means for generating display data for an indication of the oligopoly score per technical field in a numerical value or in a bar graph and an indication of the judgment result of whether in an oligopolistic state or in a competitive state, to display these indications within the  
20 same frame or at an adjacent position; and

output means for outputting the display data to display means, printing means, recording medium, or another telecommunications device via a communication line.

25 4. An enterprise evaluation device, comprising:

technical document acquisition means for acquiring

technical documents such as publications of unexamined patent applications or registered patents from a technical document database;

total number of inventions per enterprise extraction means for classifying the acquired technical documents into respective enterprises such as applicants, and for extracting the total number of inventions per enterprise such as the total number of patent applications per enterprise or the total number of claims filed per enterprise;

number of inventions per technical field and per enterprise extraction means for classifying the acquired technical documents into respective enterprises such as applicants and into respective technical fields such as IPC sub-classes or keywords, and for extracting the number of inventions per enterprise and per technical field such as the number of patent applications per enterprise and per technical field or the number of claims filed per enterprise and per technical field;

oligopoly score per enterprise calculation means for calculating number-of-inventions share per enterprise and per technical field through dividing the number of inventions per enterprise and per technical field by the total number of inventions per enterprise, and for accumulating the number-of-inventions share per enterprise and per technical field powered by  $kb$  (wherein  $kb > 0$ ) for each technical field having at least one invention in a predetermined enterprise, thereby

calculating the oligopoly score per enterprise; and

output means for outputting the calculated oligopoly score per enterprise to display means, printing means, recording medium, or another telecommunications device via a communication line.

5. An enterprise evaluation device, comprising:

technical document acquisition means for acquiring technical documents such as publications of unexamined patent applications or registered patents from a technical document database;

total number of inventions per enterprise extraction means for classifying the acquired technical documents into respective enterprises such as applicants, and for extracting the total number of inventions per enterprise such as the total number of patent applications per enterprise or the total number of claims filed per enterprise;

number of inventions per technical field and per enterprise extraction means for classifying the acquired technical documents into respective enterprises such as applicants and into respective technical fields such as IPC sub-classes or keywords, and for extracting the number of inventions per enterprise and per technical field such as the number of patent applications per enterprise and per technical field or the number of claims filed per enterprise and per technical field;

oligopoly score per enterprise calculation means for calculating number-of-inventions share per enterprise and per technical field through dividing the number of inventions per enterprise and per technical field by the total number of inventions per enterprise, and for accumulating the number-of-inventions share per enterprise and per technical field powered by  $kb$  (wherein  $kb > 0$ ) for each technical field having at least one invention in a predetermined enterprise, thereby calculating the oligopoly score per enterprise;

diversification per enterprise categorizing means for comparing a predetermined threshold with the calculated oligopoly score per enterprise, and for categorizing whether the number of inventions in the predetermined enterprise is concentrated in a specific technical field or diversified in numerous technical fields through representation with a figure or wording; and

output means for outputting display data of categories with the figure or wording to display means, printing means, recording medium, or another telecommunications device via a communication line.

6. An enterprise evaluation device, comprising:

technical document acquisition means for acquiring technical documents such as publications of unexamined patent applications or registered patents from a technical document database;



total number of inventions per enterprise extraction means for classifying the acquired technical documents into respective enterprises such as applicants, and for extracting the total number of inventions per enterprise such as the  
5 total number of patent applications per enterprise or the total number of claims filed per enterprise;

number of inventions per technical field and per enterprise extraction means for classifying the acquired technical documents into respective enterprises such as  
10 applicants and into respective technical fields such as IPC sub-classes or keywords, and for extracting the number of inventions per enterprise and per technical field such as the number of patent applications per enterprise and per technical field or the number of claims filed per enterprise and per  
15 technical field;

oligopoly score per enterprise calculation means for calculating number-of-inventions share per enterprise and per technical field through dividing the number of inventions per enterprise and per technical field by the total number of  
20 inventions per enterprise, and for accumulating the number-of-inventions share per enterprise and per technical field powered by  $kb$  (wherein  $kb > 0$ ) for each technical field having at least one invention in a predetermined enterprise, thereby calculating the oligopoly score per enterprise;

25 diversification index calculation means for calculating a diversification index by subtracting the oligopoly score per

enterprise from 1, or a diversification index by subtracting the oligopoly score per enterprise from 1 and multiplying 100 thereto;

diversification per enterprise categorizing means for  
5 comparing a predetermined threshold with the calculated diversification index, and for categorizing whether the number of inventions in the predetermined enterprise is concentrated in a specific technical field or diversified in numerous technical fields through representation with a figure or  
10 wording; and

output means for outputting display data of categories with the figure or wording to display means, printing means, recording medium, or another telecommunications device via a communication line.

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7. An enterprise evaluation device, comprising:

technical document acquisition means for acquiring technical documents such as publications of unexamined patent applications or registered patents from a technical document  
20 database;

total number of inventions per technical field extraction means for classifying the acquired technical documents into respective technical fields such as IPC sub-classes or keywords, and for extracting the total number of inventions  
25 per technical field such as the total number of patent applications per technical field or the total number of claims

filed per technical field;

number of inventions per technical field and per  
enterprise extraction means for classifying the acquired  
technical documents into respective enterprises such as  
5 applicants and into respective technical fields such as IPC  
sub-classes or keywords, and for extracting the number of  
inventions per enterprise and per technical field such as the  
number of patent applications per enterprise and per technical  
field or the number of claims filed per enterprise and per  
10 technical field;

oligopoly score per technical field calculation means for  
calculating number-of-inventions share per technical field and  
per enterprise through dividing the number of inventions per  
enterprise and per technical field by the total number of  
15 inventions per technical field, and for accumulating the  
number-of-inventions share per technical field and per  
enterprise powered by  $k_a$  (wherein  $k_a > 1$ ) for each enterprise  
having at least one invention in a predetermined technical  
field, thereby calculating the oligopoly score per technical  
20 field;

oligopoly-emphasized score per technical field  
calculation means for calculating the oligopoly-emphasized  
score per technical field by multiplying the number-of-  
inventions share per technical field and per enterprise and  
25 the oligopoly score per technical-field; and

output means for outputting the calculated oligopoly-

emphasized score per technical field to display means,  
printing means, recording medium, or another  
telecommunications device via a communication line.

5 8. An enterprise evaluation device, comprising:

technical document acquisition means for acquiring  
technical documents such as publications of unexamined patent  
applications or registered patents from a technical document  
database;

10 total number of inventions per technical field extraction  
means for classifying the acquired technical documents into  
respective technical fields such as IPC sub-classes or  
keywords, and for extracting the total number of inventions  
per technical field such as the total number of patent  
15 applications per technical field or the total number of claims  
filed per technical field;

number of inventions per technical field and per  
enterprise extraction means for classifying the acquired  
technical documents into respective enterprises such as  
20 applicants and into respective technical fields such as IPC  
sub-classes or keywords, and for extracting the number of  
inventions per enterprise and per technical field such as the  
number of patent applications per enterprise and per technical  
field or the number of claims filed per enterprise and per  
25 technical field;

oligopoly score per technical field calculation means for

calculating number-of-inventions share per technical field and per enterprise through dividing the number of inventions per enterprise and per technical field by the total number of inventions per technical field, and for accumulating the

5 number-of-inventions share per technical field and per enterprise powered by  $k_a$  (wherein  $k_a > 1$ ) for each enterprise having at least one invention in a predetermined technical field, thereby calculating the oligopoly score per technical field;

10 oligopoly-emphasized score per technical field calculation means for calculating the oligopoly-emphasized score per technical field by multiplying the number-of-inventions share per technical field and per enterprise and the oligopoly score per technical field;

15 enterprise competitive position score calculation means for accumulating the oligopoly-emphasized score per technical field for each technical field having at least one invention in a predetermined enterprise, thereby calculating the enterprise competitive position score; and

20 output means for outputting the calculated enterprise competitive position score to display means, printing means, recording medium, or another telecommunications device via a communication line.

25 9. An enterprise evaluation device, comprising:

technical document acquisition means for acquiring

technical documents such as publications of unexamined patent applications or registered patents from a technical document database;

total number of inventions per technical field extraction

5 means for classifying the acquired technical documents into respective technical fields such as IPC sub-classes or keywords, and for extracting the total number of inventions per technical field such as the total number of patent applications per technical field or the total number of claims  
10 filed per technical field;

number of inventions per technical field and per enterprise extraction means for classifying the acquired technical documents into respective enterprises such as applicants and into respective technical fields such as IPC  
15 sub-classes or keywords, and for extracting the number of inventions per enterprise and per technical field such as the number of patent applications per enterprise and per technical field or the number of claims filed per enterprise and per technical field;

20 oligopoly score per technical field calculation means for calculating number-of-inventions share per technical field and per enterprise through dividing the number of inventions per enterprise and per technical field by the total number of inventions per technical field, and for accumulating the  
25 number-of-inventions share per technical field and per enterprise powered by  $k_a$  (wherein  $k_a > 1$ ) for each enterprise

having at least one invention in a predetermined technical field, thereby calculating the oligopoly score per technical field;

oligopoly-emphasized score per technical field

5 calculation means for calculating the oligopoly-emphasized score per technical field by multiplying the number-of-inventions share per technical field and per enterprise and the oligopoly score per technical field;

enterprise competitive position score calculation means  
10 for accumulating the oligopoly-emphasized score per technical field for each technical field having at least one invention in a predetermined enterprise, thereby calculating the enterprise competitive position score;

enterprise competitive position score categorizing means  
15 for comparing a predetermined threshold with the calculated enterprise competitive position score, and for categorizing the competitive position of the predetermined enterprise relating to inventions through representation with a figure or wording;

20 display data generation means for generating display data of categories with the figure or wording; and

output means for outputting the display data to display means, printing means, recording medium, or another telecommunications device via a communication line.

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10. The enterprise evaluation device according to claim 9,

wherein the threshold is a value using an average value or standard deviation of the enterprise competitive position scores of all enterprises.

5 11. An enterprise evaluation device, comprising:

technical document acquisition means for acquiring technical documents such as publications of unexamined patent applications or registered patents from a technical document database;

10 total number of inventions per technical field extraction means for classifying the acquired technical documents into respective technical fields such as IPC sub-classes or keywords, and for extracting the total number of inventions per technical field such as the total number of patent  
15 applications per technical field or the total number of claims filed per technical field;

number of inventions per technical field and per enterprise extraction means for classifying the acquired technical documents into respective enterprises such as  
20 applicants and into respective technical fields such as IPC sub-classes or keywords, and for extracting the number of inventions per enterprise and per technical field such as the number of patent applications per enterprise and per technical field or the number of claims filed per enterprise and per  
25 technical field;

oligopoly score per technical field calculation means for



calculating number-of-inventions share per technical field and per enterprise through dividing the number of inventions per enterprise and per technical field by the total number of inventions per technical field, and for accumulating the  
5 number-of-inventions share per technical field and per enterprise powered by  $k_a$  (wherein  $k_a > 1$ ) for each enterprise having at least one invention in a predetermined technical field, thereby calculating the oligopoly score per technical field;

10           oligopoly-emphasized score per technical field calculation means for calculating the oligopoly-emphasized score per technical field by multiplying the number-of-inventions share per technical field and per enterprise and the oligopoly score per technical field;

15           enterprise competitive position score calculation means for accumulating the oligopoly-emphasized score per technical field for each technical field having at least one invention in a predetermined enterprise, thereby calculating the enterprise competitive position score;

20           standardized enterprise competitive position score calculation means for calculating the standardized enterprise competitive position score through dividing the enterprise competitive position score by the number of technical fields; and

25           output means for outputting the calculated standardized enterprise competitive position score to display means,

printing means, recording medium, or another telecommunications device via a communication line.

12. An enterprise evaluation device, comprising:

- 5           technical document acquisition means for acquiring technical documents such as publications of unexamined patent applications or registered patents from a technical document database;
- total number of inventions per technical field extraction
- 10          means for classifying the acquired technical documents into respective technical fields such as IPC sub-classes or keywords, and for extracting the total number of inventions per technical field such as the total number of patent applications per technical field or the total number of claims
- 15          filed per technical field;
- number of inventions per technical field and per enterprise extraction means for classifying the acquired technical documents into respective enterprises such as applicants and into respective technical fields such as IPC
- 20          sub-classes or keywords, and for extracting the number of inventions per enterprise and per technical field such as the number of patent applications per enterprise and per technical field or the number of claims filed per enterprise and per technical field;
- 25          oligopoly score per technical field calculation means for calculating number-of-inventions share per technical field and

per enterprise through dividing the number of inventions per enterprise and per technical field by the total number of inventions per technical field, and for accumulating the number-of-inventions share per technical field and per

5 enterprise powered by  $k_a$  (wherein  $k_a > 1$ ) for each enterprise having at least one invention in a predetermined technical field, thereby calculating the oligopoly score per technical field;

oligopoly-emphasized score per technical field

10 calculation means for calculating the oligopoly-emphasized score per technical field by multiplying the number-of-inventions share per technical field and per enterprise and the oligopoly score per technical field;

enterprise competitive position score calculation means  
15 for accumulating the oligopoly-emphasized score per technical field for each technical field having at least one invention in a predetermined enterprise, thereby calculating the enterprise competitive position score;

standardized enterprise competitive position score  
20 calculation means for calculating the standardized enterprise competitive position score through dividing the enterprise competitive position score by the number of technical fields;

standardized enterprise competitive position score  
categorizing means for comparing a predetermined threshold  
25 with the calculated standardized enterprise competitive position score, and for categorizing the competitive position

of the predetermined enterprise relating to inventions through representation with a figure or wording;

display data generation means for generating display data of categories with the figure or wording; and

5        output means for outputting the display data to display means, printing means, recording medium, or another telecommunications device via a communication line.

13.    The enterprise evaluation device according to claim 12,  
10    wherein the threshold is a value using an average value or standard deviation of the standardized enterprise competitive position scores of all enterprises.

14.    An enterprise evaluation device, comprising:

15        technical document acquisition means for acquiring technical documents such as publications of unexamined patent applications or registered patents from a technical document database;

total number of inventions per technical field extraction  
20    means for classifying the acquired technical documents into respective technical fields such as IPC sub-classes or keywords, and for extracting the total number of inventions per technical field such as the total number of patent applications per technical field or the total number of claims  
25    filed per technical field;

number of inventions per technical field and per

enterprise extraction means for classifying the acquired technical documents into respective enterprises such as applicants and into respective technical fields such as IPC sub-classes or keywords, and for extracting the number of inventions per enterprise and per technical field such as the number of patent applications per enterprise and per technical field or the number of claims filed per enterprise and per technical field;

oligopoly score per technical field calculation means for calculating number-of-inventions share per technical field and per enterprise through dividing the number of inventions per enterprise and per technical field by the total number of inventions per technical field, and for accumulating the number-of-inventions share per technical field and per enterprise powered by  $k_a$  (wherein  $k_a > 1$ ) for each enterprise having at least one invention in a predetermined technical field, thereby calculating the oligopoly score per technical field;

oligopoly-emphasized score per technical field calculation means for calculating the oligopoly-emphasized score per technical field by multiplying the number-of-inventions share per technical field and per enterprise and the oligopoly score per technical field;

enterprise competitive position score calculation means for accumulating the oligopoly-emphasized score per technical field for each technical field having at least one invention

in a predetermined enterprise, thereby calculating the enterprise competitive position score;

rate of increase of inventions acquisition means for acquiring the rate of increase in number of inventions in the predetermined enterprise and the rate of increase in number of inventions in all enterprises based on date information of the acquired technical documents;

excess growth rate calculation means for calculating the excess growth rate of the predetermined enterprise by subtracting the rate of increase in number of inventions in all enterprises from the rate of increase in number of inventions in the predetermined enterprise;

enterprise competitive position index calculation means for calculating the enterprise competitive position index by multiplying the enterprise competitive position score to a value obtained by adding 1 to the excess growth rate; and

output means for outputting the enterprise competitive position index to display means, printing means, recording medium, or another telecommunications device via a communication line.

15. An enterprise evaluation device, comprising:

technical document acquisition means for acquiring technical documents such as publications of unexamined patent applications or registered patents from a technical document database;

total number of inventions per technical field extraction means for classifying the acquired technical documents into respective technical fields such as IPC sub-classes or keywords, and for extracting the total number of inventions per technical field such as the total number of patent applications per technical field or the total number of claims filed per technical field;

number of inventions per technical field and per enterprise extraction means for classifying the acquired technical documents into respective enterprises such as applicants and into respective technical fields such as IPC sub-classes or keywords, and for extracting the number of inventions per enterprise and per technical field such as the number of patent applications per enterprise and per technical field or the number of claims filed per enterprise and per technical field;

oligopoly score per technical field calculation means for calculating number-of-inventions share per technical field and per enterprise through dividing the number of inventions per enterprise and per technical field by the total number of inventions per technical field, and for accumulating the number-of-inventions share per technical field and per enterprise powered by  $k_a$  (wherein  $k_a > 1$ ) for each enterprise having at least one invention in a predetermined technical field, thereby calculating the oligopoly score per technical field;

oligopoly-emphasized score per technical field calculation means for calculating the oligopoly-emphasized score per technical field by multiplying the number-of-inventions share per technical field and per enterprise and  
5 the oligopoly score per technical field;

enterprise competitive position score calculation means for accumulating the oligopoly-emphasized score per technical field for each technical field having at least one invention in a predetermined enterprise, thereby calculating the  
10 enterprise competitive position score;

rate of increase of inventions acquisition means for acquiring the rate of increase in number of inventions in the predetermined enterprise and the rate of increase in number of inventions in all enterprises based on date information of the  
15 acquired technical documents;

excess growth rate calculation means for calculating the excess growth rate of the predetermined enterprise by subtracting the rate of increase in number of inventions in all enterprises from the rate of increase in number of  
20 inventions in the predetermined enterprise;

enterprise competitive position index calculation means for calculating the enterprise competitive position index by multiplying the enterprise competitive position score to a value obtained by adding 1 to the excess growth rate;

25 enterprise competitive position index categorizing means for comparing a predetermined threshold with the calculated



enterprise competitive position index, and for categorizing the competitive position of the predetermined enterprise relating to inventions through representation with a figure or wording;

5           display data generation means for generating display data of categories with the figure or wording; and

          output means for outputting the display data to display means, printing means, recording medium, or another telecommunications device via a communication line.

10

16.   The enterprise evaluation device according to claim 15, wherein the threshold is a value using an average value or standard deviation of the enterprise competitive position indexes of all enterprises.

15

17.   An enterprise evaluation device, comprising:

          technical document acquisition means for acquiring technical documents such as publications of unexamined patent applications or registered patents from a technical document

20   database;

          total number of inventions per technical field extraction means for classifying the acquired technical documents into respective technical fields such as IPC sub-classes or keywords, and for extracting the total number of inventions

25   per technical field such as the total number of patent applications per technical field or the total number of claims

filed per technical field;

number of inventions per technical field and per  
enterprise extraction means for classifying the acquired  
technical documents into respective enterprises such as  
5 applicants and into respective technical fields such as IPC  
sub-classes or keywords, and for extracting the number of  
inventions per enterprise and per technical field such as the  
number of patent applications per enterprise and per technical  
field or the number of claims filed per enterprise and per  
10 technical field;

oligopoly score per technical field calculation means for  
calculating number-of-inventions share per technical field and  
per enterprise through dividing the number of inventions per  
enterprise and per technical field by the total number of  
15 inventions per technical field, and for accumulating the  
number-of-inventions share per technical field and per  
enterprise powered by  $k_a$  (wherein  $k_a > 1$ ) for each enterprise  
having at least one invention in a predetermined technical  
field, thereby calculating the oligopoly score per technical  
20 field;

oligopoly-emphasized score per technical field  
calculation means for calculating the oligopoly-emphasized  
score per technical field by multiplying the number-of-  
inventions share per technical field and per enterprise and  
25 the oligopoly score per technical field;

enterprise competitive position score calculation means

for accumulating the oligopoly-emphasized score per technical field for each technical field having at least one invention in a predetermined enterprise, thereby calculating the enterprise competitive position score;

5           rate of increase of inventions acquisition means for acquiring the rate of increase in number of inventions in the predetermined enterprise and the rate of increase in number of inventions in all enterprises based on date information of the acquired technical documents;

10           excess growth rate calculation means for calculating the excess growth rate of the predetermined enterprise by subtracting the rate of increase in number of inventions in all enterprises from the rate of increase in number of inventions in the predetermined enterprise;

15           enterprise competitive position index calculation means for calculating the enterprise competitive position index by multiplying the enterprise competitive position score to a value obtained by adding 1 to the excess growth rate;

            standardized enterprise competitive position index  
20           calculation means for calculating the standardized enterprise competitive position index through dividing the enterprise competitive position index by the number of technical fields; and

            output means for outputting the standardized enterprise  
25           competitive position index to display means, printing means, recording medium, or another telecommunications device via a

communication line.

18. An enterprise evaluation device, comprising:

technical document acquisition means for acquiring

5 technical documents such as publications of unexamined patent applications or registered patents from a technical document database;

total number of inventions per technical field extraction means for classifying the acquired technical documents into

10 respective technical fields such as IPC sub-classes or keywords, and for extracting the total number of inventions per technical field such as the total number of patent applications per technical field or the total number of claims filed per technical field;

15 number of inventions per technical field and per enterprise extraction means for classifying the acquired technical documents into respective enterprises such as applicants and into respective technical fields such as IPC sub-classes or keywords, and for extracting the number of  
20 inventions per enterprise and per technical field such as the number of patent applications per enterprise and per technical field or the number of claims filed per enterprise and per technical field;

oligopoly score per technical field calculation means for  
25 calculating number-of-inventions share per technical field and per enterprise through dividing the number of inventions per

enterprise and per technical field by the total number of inventions per technical field, and for accumulating the number-of-inventions share per technical field and per enterprise powered by  $k_a$  (wherein  $k_a > 1$ ) for each enterprise having at least one invention in a predetermined technical field, thereby calculating the oligopoly score per technical field;

oligopoly-emphasized score per technical field calculation means for calculating the oligopoly-emphasized score per technical field by multiplying the number-of-inventions share per technical field and per enterprise and the oligopoly score per technical field;

enterprise competitive position score calculation means for accumulating the oligopoly-emphasized score per technical field for each technical field having at least one invention in a predetermined enterprise, thereby calculating the enterprise competitive position score;

rate of increase of inventions acquisition means for acquiring the rate of increase in number of inventions in the predetermined enterprise and the rate of increase in number of inventions in all enterprises based on date information of the acquired technical documents;

excess growth rate calculation means for calculating the excess growth rate of the predetermined enterprise by subtracting the rate of increase in number of inventions in all enterprises from the rate of increase in number of

inventions in the predetermined enterprise;

enterprise competitive position index calculation means for calculating the enterprise competitive position index by multiplying the enterprise competitive position score to a value obtained by adding 1 to the excess growth rate;

standardized enterprise competitive position index calculation means for calculating the standardized enterprise competitive position index through dividing the enterprise competitive position index by the number of technical fields;

standardized enterprise competitive position index categorizing means for comparing a predetermined threshold with the calculated standardized enterprise competitive position index, and for categorizing the competitive position of the predetermined enterprise relating to inventions through representation with a figure or wording;

display data generation means for generating display data of categories with the figure or wording; and

output means for outputting the display data to display means, printing means, recording medium, or another telecommunications device via a communication line.

19. The enterprise evaluation device according to claim 18, wherein the threshold is a value using an average value or standard deviation of the standardized enterprise competitive position indexes of all enterprises.

20. The enterprise evaluation device according to any one of claims 1 to 19, wherein the technical field is classified by IPC sections, IPC classes, IPC sub-classes, IPC main groups, IPC sub-groups, F terms, FI, facets or keywords contained in  
5 the technical documents.

21. The enterprise evaluation device according to any one of claims 1 to 19, wherein the technical documents are publications of registered patents, unexamined patent  
10 applications, registered utility models, unexamined utility model applications, published translations of PCT international applications, domestic re-publications of PCT international applications, foreign publications, published appeal and trial decisions, transitional information or  
15 journals of technical disclosure.

22. The enterprise evaluation device according to any one of claims 1 to 19, wherein the number of inventions among the total number of inventions per technical field or number of  
20 inventions per enterprise and per technical field is the number of patent or utility model applications, number of claims filed, number of registrations, number of claims registered, number of examination requests, number of claims requested for examination, number of decisions of registration,  
25 number of claims decided to be registered, number of decisions of rejection, number of claims decided to be rejected, number

of demands for trial, number of claims demanded for trial or the ratios thereof.

23. An enterprise evaluation device, comprising:

5 display data generation means for generating display data for associating and displaying the category of the oligopoly score per enterprise according to claim 5 or the category of the diversification index according to claim 6 and

10 the category of the enterprise competitive position score according to claim 9 or claim 10, or the category of the standardized enterprise competitive position score according to claim 12 or claim 13; and

output means for outputting the display data to display

15 means, printing means, recording medium, or another telecommunications device via a communication line.

24. An enterprise evaluation device, comprising:

display data generation means for generating display data

20 for associating and displaying the category of the oligopoly score per enterprise according to claim 5 or the category of the diversification index according to claim 6 and

the category of the enterprise competitive position index

25 according to claim 15 or claim 16, or the category of the standardized enterprise competitive position index according



to claim 18 or claim 19; and

output means for outputting the display data to display means, printing means, recording medium, or another telecommunications device via a communication line.

5

25. An enterprise evaluation device, comprising:

display data generation means for generating display data for associating and displaying

the category of the oligopoly score per enterprise according

10 to claim 5 or the category of the diversification index according to claim 6 and

the enterprise competitive position score according to claim 8

or the standardized enterprise competitive position score

according to claim 11, or the enterprise competitive position

15 index according to claim 14 or the standardized enterprise competitive position index according to claim 17; and

output means for outputting the display data to display means, printing means, recording medium, or another telecommunications device via a communication line.

20

26. An enterprise evaluation device, comprising:

management-finance information acquisition means for acquiring management-finance information of an enterprise to be researched from a management-finance database recording

25 management-finance information such as information showing the size of the enterprise or finance information of the

enterprise;

display data generation means for generating display data for displaying, enterprise by enterprise and via a graph or chart, the relationship of the oligopoly score per enterprise according to claim 4, the oligopoly-emphasized score per technical field according to claim 7, enterprise competitive position score according to claim 8, standardized enterprise competitive position score according to claim 11, enterprise competitive position index according to claim 14 or the standardized enterprise competitive position index according to claim 17 and the acquired management-finance information of the enterprise to be researched; and

output means for outputting the display data to display means, printing means, recording medium, or another telecommunications device via a communication line.

27. The enterprise evaluation device according to claim 26, wherein the management-finance information includes the sales volume, sales profit, operating profit, sales profit ratio, operating profit ratio, total market value to total assets ratio, total market value to stockholders' equity ratio, total market value to sales volume ratio, total market value to gross operating profit ratio, total market value to operating profit ratio, gross operating profit to total assets ratio, gross operating profit to stockholders' equity ratio, operating profit to total assets ratio, operating profit to

stockholders' equity ratio, stockholders' equity ratio,  
balance of total market value and stockholders' equity, R&D  
cost, R&D cost to sales volume ratio, R&D cost to gross  
operating profit ratio, gross operating profit ratio, gross  
5 operating profit or other financial information of the  
enterprise.

28. An enterprise evaluation program to be executed with an  
enterprise evaluation device comprising: technical document  
10 acquisition means for acquiring technical documents from a  
technical document database; total number of inventions per  
technical field extraction means for classifying the acquired  
technical documents into respective technical fields and for  
extracting the total number of inventions per technical field;  
15 number of inventions per technical field and per enterprise  
extraction means for classifying the acquired technical  
documents and for extracting the number of inventions per  
enterprise and per technical field; oligopoly score per  
technical field calculation means for calculating the  
20 oligopoly score per technical field; output means for  
outputting the calculated oligopoly score per technical field  
to display means or the like; and information processing means  
capable of controlling said technical document acquisition  
means, total number of inventions per technical field  
25 extraction means, number of inventions per technical field and  
per enterprise extraction means, oligopoly score per technical

field calculation means and output means,

wherein said information processing means realizes:

a function for making said technical document acquisition means acquire technical documents such as publications of unexamined patent applications or registered patents from the technical document database;

a function for making said total number of inventions per technical field extraction means classify the acquired technical documents into respective technical fields such as IPC sub-classes or keywords, and extract the total number of inventions per technical field such as the total number of patent applications per technical field or the total number of claims filed per technical field;

a function for making said number of inventions per technical field and per enterprise extraction means classify the acquired technical documents into respective enterprises such as applicants and into respective technical fields such as IPC sub-classes or keywords, and extract the number of inventions per enterprise and per technical field such as the number of patent applications per enterprise and per technical field or the number of claims filed per enterprise and per technical field;

a function for making said oligopoly score per technical field calculation means calculate number-of-inventions share per technical field and per enterprise through dividing the number of inventions per enterprise and per technical field by

the total number of inventions per technical field, and  
accumulate the number-of-inventions share per technical field  
and per enterprise powered by  $k_a$  (wherein  $k_a > 1$ ) for each  
enterprise having at least one invention in a predetermined  
5 technical field, thereby calculate the oligopoly score per  
technical field; and

a function for making said output means output the  
calculated oligopoly score per technical field to display  
means, printing means, recording medium, or another  
10 telecommunications device via a communication line.

29. An enterprise evaluation program to be executed with an  
enterprise evaluation device comprising: technical document  
acquisition means for acquiring technical documents from a  
15 technical document database; total number of inventions per  
technical field extraction means for classifying the acquired  
technical documents into respective technical fields and for  
extracting the total number of inventions per technical field;  
number of inventions per technical field and per enterprise  
20 extraction means for classifying the acquired technical  
documents and for extracting the number of inventions per  
enterprise and per technical field; oligopoly score per  
technical field calculation means for calculating the  
oligopoly score per technical field; oligopolistic state per  
25 technical field judgment means for judging whether the number  
of inventions in the predetermined technical field is in an

oligopolistic state of a specific enterprise; output means for outputting an index showing the oligopolistic state or competitive state to display means or the like; and information processing means capable of controlling said

5 technical document acquisition means, total number of inventions per technical field extraction means, number of inventions per technical field and per enterprise extraction means, oligopoly score per technical field calculation means, oligopolistic state per technical field judgment means and  
10 output means,

wherein said information processing means realizes:

a function for making said technical document acquisition means acquire technical documents such as publications of unexamined patent applications or registered patents from a  
15 technical document database;

a function for making said total number of inventions per technical field extraction means classify the acquired technical documents into respective technical fields such as IPC sub-classes or keywords, and extract the total number of  
20 inventions per technical field such as the total number of patent applications per technical field or the total number of claims filed per technical field;

a function for making said number of inventions per technical field and per enterprise extraction means classify  
25 the acquired technical documents into respective enterprises such as applicants and into respective technical fields such

as IPC sub-classes or keywords, and extract the number of inventions per enterprise and per technical field such as the number of patent applications per enterprise and per technical field or the number of claims filed per enterprise and per technical field;

a function for making said oligopoly score per technical field calculation means calculate number-of-inventions share per technical field and per enterprise through dividing the number of inventions per enterprise and per technical field by the total number of inventions per technical field, and accumulate the number-of-inventions share per technical field and per enterprise powered by  $k_a$  (wherein  $k_a > 1$ ) for each enterprise having at least one invention in a predetermined technical field, thereby calculate the oligopoly score per technical field;

a function for making said oligopolistic state per technical field judgment means compare a predetermined threshold with the calculated oligopoly score per technical field, and judge whether the number of inventions in the predetermined technical field is in an oligopolistic state of a specific enterprise, or a competitive state of numerous enterprises; and

a function for making said output means output an index showing the oligopolistic state or the competitive state judged by the oligopolistic state per technical field judgment means to display means, printing means, recording medium, or

another telecommunications device via a communication line.

30. An enterprise evaluation program to be executed with an enterprise evaluation device comprising: technical document acquisition means for acquiring technical documents from a technical document database; total number of inventions per technical field extraction means for classifying the acquired technical documents into respective technical fields and for extracting the total number of inventions per technical field; number of inventions per technical field and per enterprise extraction means for classifying the acquired technical documents and for extracting the number of inventions per enterprise and per technical field; oligopoly score per technical field calculation means for calculating the oligopoly score per technical field; oligopolistic state per technical field judgment means for judging whether the number of inventions in the predetermined technical field is in an oligopolistic state of a specific enterprise; display data generation means for generating display data; output means for outputting the display data to display means or the like; and information processing means capable of controlling said technical document acquisition means, total number of inventions per technical field extraction means, number of inventions per technical field and per enterprise extraction means, oligopoly score per technical field calculation means, oligopolistic state per technical field judgment means,



display data generation means and output means,

wherein said information processing means realizes:

a function for making said technical document acquisition means acquire technical documents such as publications of unexamined patent applications or registered patents from a technical document database;

a function for making said total number of inventions per technical field extraction means classify the acquired technical documents into respective technical fields such as IPC sub-classes or keywords, and extract the total number of inventions per technical field such as the total number of patent applications per technical field or the total number of claims filed per technical field;

a function for making said number of inventions per technical field and per enterprise extraction means classify the acquired technical documents into respective enterprises such as applicants and into respective technical fields such as IPC sub-classes or keywords, and extract the number of inventions per enterprise and per technical field such as the number of patent applications per enterprise and per technical field or the number of claims filed per enterprise and per technical field;

a function for making said oligopoly score per technical field calculation means calculate number-of-inventions share per technical field and per enterprise through dividing the number of inventions per enterprise and per technical field by

the total number of inventions per technical field, and  
accumulate the number-of-inventions share per technical field  
and per enterprise powered by  $k_a$  (wherein  $k_a > 1$ ) for each  
enterprise having at least one invention in a predetermined  
5 technical field, thereby calculate the oligopoly score per  
technical field;

a function for making said oligopolistic state per  
technical field judgment means compare a predetermined  
threshold with the calculated oligopoly score per technical  
10 field, and judge whether the number of inventions in the  
predetermined technical field is in an oligopolistic state of  
a specific enterprise, or a competitive state of numerous  
enterprises; and

a function for making said output means output the  
15 display data to display means, printing means, recording  
medium, or another telecommunications device via a  
communication line.

31. An enterprise evaluation program to be executed with an  
20 enterprise evaluation device comprising: technical document  
acquisition means for acquiring technical documents from a  
technical document database; total number of inventions per  
enterprise extraction means for classifying the acquired  
technical documents into respective enterprises and for  
25 extracting the total number of inventions per enterprise;  
number of inventions per technical field and per enterprise

extraction means for classifying the acquired technical documents and for extracting the number of inventions per enterprise and per technical field; oligopoly score per enterprise calculation means for calculating the oligopoly score per enterprise; output means for outputting the calculated oligopoly score per enterprise to display means or the like; and information processing means capable of controlling said technical document acquisition means, total number of inventions per enterprise extraction means, number of inventions per technical field and per enterprise extraction means, oligopoly score per enterprise calculation means and output means,

wherein said information processing means realizes:

a function for making said technical document acquisition means acquire technical documents such as publications of unexamined patent applications or registered patents from a technical document database;

a function for making said total number of inventions per enterprise extraction means classify the acquired technical documents into respective enterprises such as applicants, and extract the total number of inventions per enterprise such as the total number of patent applications per enterprise or the total number of claims filed per enterprise;

a function for making said number of inventions per technical field and per enterprise extraction means classify the acquired technical documents into respective enterprises

such as applicants and into respective technical fields such as IPC sub-classes or keywords, and extract the number of inventions per enterprise and per technical field such as the number of patent applications per enterprise and per technical field or the number of claims filed per enterprise and per technical field;

a function for making said oligopoly score per enterprise calculation means calculate number-of-inventions share per enterprise and per technical field through dividing the number of inventions per enterprise and per technical field by the total number of inventions per enterprise, and accumulate the number-of-inventions share per enterprise and per technical field powered by  $k_b$  (wherein  $k_b > 0$ ) for each technical field having at least one invention in a predetermined enterprise, thereby calculate the oligopoly score per enterprise; and

a function for making said output means output the calculated oligopoly score per enterprise to display means, printing means, recording medium, or another telecommunications device via a communication line.

32. An enterprise evaluation program to be executed with an enterprise evaluation device comprising: technical document acquisition means for acquiring technical documents from a technical document database; total number of inventions per enterprise extraction means for classifying the acquired technical documents into respective enterprises and for

extracting the total number of inventions per enterprise;  
number of inventions per technical field and per enterprise  
extraction means for classifying the acquired technical  
documents and for extracting the number of inventions per  
5 enterprise and per technical field; oligopoly score per  
enterprise calculation means for calculating the oligopoly  
score per enterprise; diversification per enterprise  
categorizing means for comparing a predetermined threshold  
with the calculated oligopoly score per enterprise and for  
10 categorizing through representation with a figure or wording;  
output means for outputting the display data of categories  
with the figure or wording to display means or the like; and  
information processing means capable of controlling said  
technical document acquisition means, total number of  
15 inventions per enterprise extraction means, number of  
inventions per technical field and per enterprise extraction  
means, oligopoly score per enterprise calculation means,  
diversification per enterprise categorizing means and output  
means,  
20 wherein said information processing means realizes:  
a function for making said technical document acquisition  
means acquire technical documents such as publications of  
unexamined patent applications or registered patents from a  
technical document database;  
25 a function for making said total number of inventions per  
enterprise extraction means classify the acquired technical

documents into respective enterprises such as applicants, and extract the total number of inventions per enterprise such as the total number of patent applications per enterprise or the total number of claims filed per enterprise;

5           a function for making said number of inventions per technical field and per enterprise extraction means classify the acquired technical documents into respective enterprises such as applicants and into respective technical fields such as IPC sub-classes or keywords, and extract the number of  
10 inventions per enterprise and per technical field such as the number of patent applications per enterprise and per technical field or the number of claims filed per enterprise and per technical field;

          a function for making said oligopoly score per enterprise  
15 calculation means calculate number-of-inventions share per enterprise and per technical field through dividing the number of inventions per enterprise and per technical field by the total number of inventions per enterprise, and accumulate the number-of-inventions share per enterprise and per technical  
20 field powered by  $kb$  (wherein  $kb > 0$ ) for each technical field having at least one invention in a predetermined enterprise, thereby calculate the oligopoly score per enterprise;

          a function for making said diversification per enterprise categorizing means compare a predetermined threshold with the  
25 calculated oligopoly score per enterprise, and categorize whether the number of inventions in the predetermined

enterprise is concentrated in a specific technical field or diversified in numerous technical fields through representation with a figure or wording; and

5 a function for making said output means output display data of categories with the figure or wording to display means, printing means, recording medium, or another telecommunications device via a communication line.

33. An enterprise evaluation program to be executed with an  
10 enterprise evaluation device comprising: technical document acquisition means for acquiring technical documents from a technical document database; total number of inventions per enterprise extraction means for classifying the acquired technical documents into respective enterprises and for  
15 extracting the total number of inventions per enterprise; number of inventions per technical field and per enterprise extraction means for classifying the acquired technical documents and for extracting the number of inventions per enterprise and per technical field; oligopoly score per  
20 enterprise calculation means for calculating the oligopoly score per enterprise; diversification index calculation means for calculating a diversification index; diversification per enterprise categorizing means for categorizing whether the number of inventions in the predetermined enterprise is  
25 concentrated in a specific technical field through representation with a figure or wording; output means for

outputting the display data of categories with the figure or  
wording to display means or the like; and information  
processing means capable of controlling said technical  
document acquisition means, total number of inventions per  
5 enterprise extraction means, number of inventions per  
technical field and per enterprise extraction means, oligopoly  
score per enterprise calculation means, diversification index  
calculation means, diversification per enterprise categorizing  
means and output means,

10 wherein said information processing means realizes:

a function for making said technical document acquisition  
means acquire technical documents such as publications of  
unexamined patent applications or registered patents from a  
technical document database;

15 a function for making said total number of inventions per  
enterprise extraction means classify the acquired technical  
documents into respective enterprises such as applicants, and  
extract the total number of inventions per enterprise such as  
the total number of patent applications per enterprise or the  
20 total number of claims filed per enterprise;

a function for making said number of inventions per  
technical field and per enterprise extraction means classify  
the acquired technical documents into respective enterprises  
such as applicants and into respective technical fields such  
25 as IPC sub-classes or keywords, and extract the number of  
inventions per enterprise and per technical field such as the



number of patent applications per enterprise and per technical field or the number of claims filed per enterprise and per technical field;

a function for making said oligopoly score per enterprise calculation means calculate number-of-inventions share per enterprise and per technical field through dividing the number of inventions per enterprise and per technical field by the total number of inventions per enterprise, and accumulate the number-of-inventions share per enterprise and per technical field powered by  $kb$  (wherein  $kb > 0$ ) for each technical field having at least one invention in a predetermined enterprise, thereby calculate the oligopoly score per enterprise;

a function for making said diversification index calculation means calculate a diversification index by subtracting the oligopoly score per enterprise from 1, or a diversification index by subtracting the oligopoly score per enterprise from 1 and multiplying 100 thereto;

a function for making said diversification per enterprise categorizing means compare a predetermined threshold with the calculated diversification index, and categorize whether the number of inventions in the predetermined enterprise is concentrated in a specific technical field or diversified in numerous technical fields through representation with a figure or wording; and

a function for making said output means output display data of categories with the figure or wording to display means,

printing means, recording medium, or another telecommunications device via a communication line.

34. An enterprise evaluation program to be executed with an  
5 enterprise evaluation device comprising: technical document acquisition means for acquiring technical documents from a technical document database; total number of inventions per technical field extraction means for classifying the acquired technical documents into respective technical fields and for  
10 extracting the total number of inventions per technical field; number of inventions per technical field and per enterprise extraction means for classifying the acquired technical documents and for extracting the number of inventions per enterprise and per technical field; oligopoly score per  
15 technical field calculation means for calculating the oligopoly score per technical field; oligopoly-emphasized score per technical field calculation means for calculating the oligopoly-emphasized score per technical field; output means for outputting the calculated oligopoly-emphasized score  
20 per technical field to display means or the like; and information processing means capable of controlling said technical document acquisition means, total number of inventions per technical field extraction means, number of inventions per technical field and per enterprise extraction  
25 means, oligopoly score per technical field calculation means, oligopoly-emphasized score per technical field calculation

means and output means,

wherein said information processing means realizes:

a function for making said technical document acquisition means acquire technical documents such as publications of unexamined patent applications or registered patents from a technical document database;

a function for making said total number of inventions per technical field extraction means classify the acquired technical documents into respective technical fields such as IPC sub-classes or keywords, and extract the total number of inventions per technical field such as the total number of patent applications per technical field or the total number of claims filed per technical field;

a function for making said number of inventions per technical field and per enterprise extraction means classify the acquired technical documents into respective enterprises such as applicants and into respective technical fields such as IPC sub-classes or keywords, and extract the number of inventions per enterprise and per technical field such as the number of patent applications per enterprise and per technical field or the number of claims filed per enterprise and per technical field;

a function for making said oligopoly score per technical field calculation means calculate number-of-inventions share per technical field and per enterprise through dividing the number of inventions per enterprise and per technical field by

the total number of inventions per technical field, and  
accumulate the number-of-inventions share per technical field  
and per enterprise powered by  $k_a$  (wherein  $k_a > 1$ ) for each  
enterprise having at least one invention in a predetermined  
5 technical field, thereby calculate the oligopoly score per  
technical field;

a function for making said oligopoly-emphasized score per  
technical field calculation means calculate the oligopoly-  
emphasized score per technical field by multiplying the  
10 number-of-inventions share per technical field and per  
enterprise and the oligopoly score per technical-field; and

a function for making said output means output the  
calculated oligopoly-emphasized score per technical field to  
display means, printing means, recording medium, or another  
15 telecommunications device via a communication line.

35. An enterprise evaluation program to be executed with an  
enterprise evaluation device comprising: technical document  
acquisition means for acquiring technical documents from a  
20 technical document database; total number of inventions per  
technical field extraction means for classifying the acquired  
technical documents into respective technical fields and for  
extracting the total number of inventions per technical field;  
number of inventions per technical field and per enterprise  
25 extraction means for classifying the acquired technical  
documents and for extracting the number of inventions per

enterprise and per technical field; oligopoly score per  
technical field calculation means for calculating the  
oligopoly score per technical field; oligopoly-emphasized  
score per technical field calculation means for calculating  
5 the oligopoly-emphasized score per technical field; enterprise  
competitive position score calculation means for calculating  
the enterprise competitive position score; output means for  
outputting the calculated enterprise competitive position  
score to display means or the like; and information processing  
10 means capable of controlling said technical document  
acquisition means, total number of inventions per technical  
field extraction means, number of inventions per technical  
field and per enterprise extraction means, oligopoly score per  
technical field calculation means, oligopoly-emphasized score  
15 per technical field calculation means, enterprise competitive  
position score calculation means and output means,

wherein said information processing means realizes:

a function for making said technical document acquisition  
means acquire technical documents such as publications of  
20 unexamined patent applications or registered patents from a  
technical document database;

a function for making said total number of inventions per  
technical field extraction means classify the acquired  
technical documents into respective technical fields such as  
25 IPC sub-classes or keywords, and extract the total number of  
inventions per technical field such as the total number of

patent applications per technical field or the total number of claims filed per technical field;

a function for making said number of inventions per technical field and per enterprise extraction means classify  
5 the acquired technical documents into respective enterprises such as applicants and into respective technical fields such as IPC sub-classes or keywords, and extract the number of inventions per enterprise and per technical field such as the number of patent applications per enterprise and per technical  
10 field or the number of claims filed per enterprise and per technical field;

a function for making said oligopoly score per technical field calculation means calculate number-of-inventions share per technical field and per enterprise through dividing the  
15 number of inventions per enterprise and per technical field by the total number of inventions per technical field, and accumulate the number-of-inventions share per technical field and per enterprise powered by  $k_a$  (wherein  $k_a > 1$ ) for each enterprise having at least one invention in a predetermined  
20 technical field, thereby calculate the oligopoly score per technical field;

a function for making said oligopoly-emphasized score per technical field calculation means calculate the oligopoly-emphasized score per technical field by multiplying the  
25 number-of-inventions share per technical field and per enterprise and the oligopoly score per technical field;

a function for making said enterprise competitive position score calculation means accumulate the oligopoly-emphasized score per technical field for each technical field having at least one invention in a predetermined enterprise, 5 thereby calculate the enterprise competitive position score; and

a function for making said output means output the calculated enterprise competitive position score to display means, printing means, recording medium, or another 10 telecommunications device via a communication line.

36. An enterprise evaluation program to be executed with an enterprise evaluation device comprising: technical document acquisition means for acquiring technical documents from a 15 technical document database; total number of inventions per technical field extraction means for classifying the acquired technical documents into respective technical fields and for extracting the total number of inventions per technical field; number of inventions per technical field and per enterprise 20 extraction means for classifying the acquired technical documents and for extracting the number of inventions per enterprise and per technical field; oligopoly score per technical field calculation means for calculating the oligopoly score per technical field; oligopoly-emphasized 25 score per technical field calculation means for calculating the oligopoly-emphasized score per technical field; enterprise

competitive position score calculation means for calculating  
the enterprise competitive position score; enterprise  
competitive position score categorizing means for categorizing  
the competitive position of the predetermined enterprise  
5 relating to inventions through representation with a figure or  
wording; display data generation means for generating display  
data of categories with the figure or wording; output means  
for outputting the display data to display means or the like;  
and information processing means capable of controlling said  
10 technical document acquisition means, total number of  
inventions per technical field extraction means, number of  
inventions per technical field and per enterprise extraction  
means, oligopoly score per technical field calculation means,  
oligopoly-emphasized score per technical field calculation  
15 means, enterprise competitive position score calculation means,  
enterprise competitive position score categorizing means,  
display data generation means and output means,

wherein said information processing means realizes:

a function for making said technical document acquisition  
20 means acquire technical documents such as publications of  
unexamined patent applications or registered patents from a  
technical document database;

a function for making said total number of inventions per  
technical field extraction means classify the acquired  
25 technical documents into respective technical fields such as  
IPC sub-classes or keywords, and extract the total number of



inventions per technical field such as the total number of patent applications per technical field or the total number of claims filed per technical field;

a function for making said number of inventions per  
5 technical field and per enterprise extraction means classify the acquired technical documents into respective enterprises such as applicants and into respective technical fields such as IPC sub-classes or keywords, and extract the number of inventions per enterprise and per technical field such as the  
10 number of patent applications per enterprise and per technical field or the number of claims filed per enterprise and per technical field;

a function for making said oligopoly score per technical field calculation means calculate number-of-inventions share  
15 per technical field and per enterprise through dividing the number of inventions per enterprise and per technical field by the total number of inventions per technical field, and accumulate the number-of-inventions share per technical field and per enterprise powered by  $k_a$  (wherein  $k_a > 1$ ) for each  
20 enterprise having at least one invention in a predetermined technical field, thereby calculate the oligopoly score per technical field;

a function for making said oligopoly-emphasized score per technical field calculation means calculate the oligopoly-  
25 emphasized score per technical field by multiplying the number-of-inventions share per technical field and per

enterprise and the oligopoly score per technical field;

a function for making said enterprise competitive position score calculation means accumulate the oligopoly-emphasized score per technical field for each technical field

5 having at least one invention in a predetermined enterprise, thereby calculate the enterprise competitive position score;

a function for making said enterprise competitive position score categorizing means compare a predetermined threshold with the calculated enterprise competitive position

10 score, and categorize the competitive position of the predetermined enterprise relating to inventions through representation with a figure or wording;

a function for making said display data generation means generate display data of categories with the figure or

15 wording; and

a function for making said output means output the display data to display means, printing means, recording medium, or another telecommunications device via a communication line.

20

37. An enterprise evaluation program to be executed with an enterprise evaluation device comprising: technical document acquisition means for acquiring technical documents from a technical document database; total number of inventions per technical field extraction means for classifying the acquired

25 technical documents into respective technical fields and for

extracting the total number of inventions per technical field;  
number of inventions per technical field and per enterprise  
extraction means for classifying the acquired technical  
documents and for extracting the number of inventions per  
5 enterprise and per technical field; oligopoly score per  
technical field calculation means for calculating the  
oligopoly score per technical field; oligopoly-emphasized  
score per technical field calculation means for calculating  
the oligopoly-emphasized score per technical field; enterprise  
10 competitive position score calculation means for calculating  
the enterprise competitive position score; enterprise  
competitive position score categorizing means for categorizing  
the competitive position of the predetermined enterprise  
relating to inventions through representation with a figure or  
15 wording; display data generation means for generating display  
data of categories with the figure or wording; output means  
for outputting the display data to display means or the like;  
and information processing means capable of controlling said  
technical document acquisition means, total number of  
20 inventions per technical field extraction means, number of  
inventions per technical field and per enterprise extraction  
means, oligopoly score per technical field calculation means,  
oligopoly-emphasized score per technical field calculation  
means, enterprise competitive position score calculation means,  
25 enterprise competitive position score categorizing means,  
display data generation means and output means,

wherein said information processing means realizes:

a function for making said technical document acquisition means acquire technical documents such as publications of unexamined patent applications or registered patents from a technical document database;

a function for making said total number of inventions per technical field extraction means classify the acquired technical documents into respective technical fields such as IPC sub-classes or keywords, and extract the total number of inventions per technical field such as the total number of patent applications per technical field or the total number of claims filed per technical field;

a function for making said number of inventions per technical field and per enterprise extraction means classify the acquired technical documents into respective enterprises such as applicants and into respective technical fields such as IPC sub-classes or keywords, and extract the number of inventions per enterprise and per technical field such as the number of patent applications per enterprise and per technical field or the number of claims filed per enterprise and per technical field;

a function for making said oligopoly score per technical field calculation means calculate number-of-inventions share per technical field and per enterprise through dividing the number of inventions per enterprise and per technical field by the total number of inventions per technical field, and

accumulate the number-of-inventions share per technical field and per enterprise powered by  $k_a$  (wherein  $k_a > 1$ ) for each enterprise having at least one invention in a predetermined technical field, thereby calculate the oligopoly score per  
5 technical field;

a function for making said oligopoly-emphasized score per technical field calculation means calculate the oligopoly-emphasized score per technical field by multiplying the number-of-inventions share per technical field and per  
10 enterprise and the oligopoly score per technical field;

a function for making said enterprise competitive position score calculation means accumulate the oligopoly-emphasized score per technical field for each technical field having at least one invention in a predetermined enterprise,  
15 thereby calculate the enterprise competitive position score;

a function for making said enterprise competitive position score categorizing means compare a predetermined threshold using an average value or standard deviation of the enterprise competitive position scores of all enterprises with  
20 the calculated enterprise competitive position score, and categorize the competitive position of the predetermined enterprise relating to inventions through representation with a figure or wording;

a function for making said display data generation means  
25 generate display data of categories with the figure or wording; and

a function for making said output means output the display data to display means, printing means, recording medium, or another telecommunications device via a communication line.

5

38. An enterprise evaluation program to be executed with an enterprise evaluation device comprising: technical document acquisition means for acquiring technical documents from a technical document database; total number of inventions per technical field extraction means for classifying the acquired  
10 technical documents into respective technical fields and for extracting the total number of inventions per technical field; number of inventions per technical field and per enterprise extraction means for classifying the acquired technical  
15 documents and for extracting the number of inventions per enterprise and per technical field; oligopoly score per technical field calculation means for calculating the oligopoly score per technical field; oligopoly-emphasized score per technical field calculation means for calculating  
20 the oligopoly-emphasized score per technical field; enterprise competitive position score calculation means for calculating the enterprise competitive position score; standardized enterprise competitive position score calculation means for calculating the standardized enterprise competitive position  
25 score; output means for outputting the standardized enterprise competitive position score to display means or the like; and

information processing means capable of controlling said technical document acquisition means, total number of inventions per technical field extraction means, number of inventions per technical field and per enterprise extraction means, oligopoly score per technical field calculation means, oligopoly-emphasized score per technical field calculation means, enterprise competitive position score calculation means, standardized enterprise competitive position score calculation means and output means,

10            wherein said information processing means realizes:

         a function for making said technical document acquisition means acquire technical documents such as publications of unexamined patent applications or registered patents from a technical document database;

15            a function for making said total number of inventions per technical field extraction means classify the acquired technical documents into respective technical fields such as IPC sub-classes or keywords, and extract the total number of inventions per technical field such as the total number of patent applications per technical field or the total number of claims filed per technical field;

         a function for making said number of inventions per technical field and per enterprise extraction means classify the acquired technical documents into respective enterprises such as applicants and into respective technical fields such as IPC sub-classes or keywords, and extract the number of

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inventions per enterprise and per technical field such as the number of patent applications per enterprise and per technical field or the number of claims filed per enterprise and per technical field;

5           a function for making said oligopoly score per technical field calculation means calculate number-of-inventions share per technical field and per enterprise through dividing the number of inventions per enterprise and per technical field by the total number of inventions per technical field, and  
10           accumulate the number-of-inventions share per technical field and per enterprise powered by  $k_a$  (wherein  $k_a > 1$ ) for each enterprise having at least one invention in a predetermined technical field, thereby calculate the oligopoly score per technical field;

15           a function for making said oligopoly-emphasized score per technical field calculation means calculate the oligopoly-emphasized score per technical field by multiplying the number-of-inventions share per technical field and per enterprise and the oligopoly score per technical field;

20           a function for making said enterprise competitive position score calculation means accumulate the oligopoly-emphasized score per technical field for each technical field having at least one invention in a predetermined enterprise, thereby calculate the enterprise competitive position score;

25           a function for making said standardized enterprise competitive position score calculation means calculate the



standardized enterprise competitive position score through dividing the enterprise competitive position score by the number of technical fields; and

a function for making said output means output the  
5 calculated standardized enterprise competitive position score to display means, printing means, recording medium, or another telecommunications device via a communication line.

39. An enterprise evaluation program to be executed with an  
10 enterprise evaluation device comprising: technical document acquisition means for acquiring technical documents from a technical document database; total number of inventions per technical field extraction means for classifying the acquired technical documents into respective technical fields and for  
15 extracting the total number of inventions per technical field; number of inventions per technical field and per enterprise extraction means for classifying the acquired technical documents and for extracting the number of inventions per enterprise and per technical field; oligopoly score per  
20 technical field calculation means for calculating the oligopoly score per technical field; oligopoly-emphasized score per technical field calculation means for calculating the oligopoly-emphasized score per technical field; enterprise competitive position score calculation means for calculating  
25 the enterprise competitive position score; rate of increase of inventions acquisition means for acquiring the rate of

increase in number of inventions; excess growth rate calculation means for calculating the excess growth rate of the predetermined enterprise; enterprise competitive position index calculation means for calculating the enterprise competitive position index; output means for outputting the enterprise competitive position index to display means or the like; and information processing means capable of controlling said technical document acquisition means, total number of inventions per technical field extraction means, number of inventions per technical field and per enterprise extraction means, oligopoly score per technical field calculation means, oligopoly-emphasized score per technical field calculation means, enterprise competitive position score calculation means, rate of increase of inventions acquisition means, excess growth rate calculation means, enterprise competitive position index calculation means and output means,

wherein said information processing means realizes:

a function for making said technical document acquisition means acquire technical documents such as publications of unexamined patent applications or registered patents from a technical document database;

a function for making said total number of inventions per technical field extraction means classify the acquired technical documents into respective technical fields such as IPC sub-classes or keywords, and extract the total number of inventions per technical field such as the total number of

patent applications per technical field or the total number of claims filed per technical field;

a function for making said number of inventions per technical field and per enterprise extraction means classify  
5 the acquired technical documents into respective enterprises such as applicants and into respective technical fields such as IPC sub-classes or keywords, and extract the number of inventions per enterprise and per technical field such as the number of patent applications per enterprise and per technical  
10 field or the number of claims filed per enterprise and per technical field;

a function for making said oligopoly score per technical field calculation means calculate number-of-inventions share per technical field and per enterprise through dividing the  
15 number of inventions per enterprise and per technical field by the total number of inventions per technical field, and accumulate the number-of-inventions share per technical field and per enterprise powered by  $k_a$  (wherein  $k_a > 1$ ) for each enterprise having at least one invention in a predetermined  
20 technical field, thereby calculate the oligopoly score per technical field;

a function for making said oligopoly-emphasized score per technical field calculation means calculate the oligopoly-emphasized score per technical field by multiplying the  
25 number-of-inventions share per technical field and per enterprise and the oligopoly score per technical field;

a function for making said enterprise competitive position score calculation means accumulate the oligopoly-emphasized score per technical field for each technical field having at least one invention in a predetermined enterprise,  
5 thereby calculate the enterprise competitive position score;

a function for making said rate of increase of inventions acquisition means acquire the rate of increase in number of inventions in the predetermined enterprise and the rate of increase in number of inventions in all enterprises based on  
10 date information of the acquired technical documents;

a function for making said excess growth rate calculation means calculate the excess growth rate of the predetermined enterprise by subtracting the rate of increase in number of inventions in all enterprises from the rate of increase in  
15 number of inventions in the predetermined enterprise;

a function for making said enterprise competitive position index calculation means calculate the enterprise competitive position index by multiplying the enterprise competitive position score to a value obtained by adding 1 to  
20 the excess growth rate; and

a function for making said output means output the enterprise competitive position index to display means, printing means, recording medium, or another telecommunications device via a communication line.

25  
40. An enterprise evaluation program to be executed with an

enterprise evaluation device comprising: technical document acquisition means for acquiring technical documents from a technical document database; total number of inventions per technical field extraction means for classifying the acquired technical documents into respective technical fields and for extracting the total number of inventions per technical field; number of inventions per technical field and per enterprise extraction means for classifying the acquired technical documents and for extracting the number of inventions per enterprise and per technical field; oligopoly score per technical field calculation means for calculating the oligopoly score per technical field; oligopoly-emphasized score per technical field calculation means for calculating the oligopoly-emphasized score per technical field; enterprise competitive position score calculation means for calculating the enterprise competitive position score; rate of increase of inventions acquisition means for acquiring the rate of increase in number of inventions; excess growth rate calculation means for calculating the excess growth rate of the predetermined enterprise; enterprise competitive position index calculation means for calculating the enterprise competitive position index; standardized enterprise competitive position index calculation means for calculating the standardized enterprise competitive position index; output means for outputting the standardized enterprise competitive position index to display means or the like; and information

processing means capable of controlling said technical document acquisition means, total number of inventions per technical field extraction means, number of inventions per technical field and per enterprise extraction means, oligopoly score per technical field calculation means, oligopoly-emphasized score per technical field calculation means, enterprise competitive position score calculation means, rate of increase of inventions acquisition means, excess growth rate calculation means, enterprise competitive position index calculation means, standardized enterprise competitive position index calculation means and output means,

wherein said information processing means realizes:

a function for making said technical document acquisition means acquire technical documents such as publications of unexamined patent applications or registered patents from a technical document database;

a function for making said total number of inventions per technical field extraction means classify the acquired technical documents into respective technical fields such as IPC sub-classes or keywords, and extract the total number of inventions per technical field such as the total number of patent applications per technical field or the total number of claims filed per technical field;

a function for making said number of inventions per technical field and per enterprise extraction means classify the acquired technical documents into respective enterprises

such as applicants and into respective technical fields such as IPC sub-classes or keywords, and extract the number of inventions per enterprise and per technical field such as the number of patent applications per enterprise and per technical field or the number of claims filed per enterprise and per technical field;

a function for making said oligopoly score per technical field calculation means calculate number-of-inventions share per technical field and per enterprise through dividing the number of inventions per enterprise and per technical field by the total number of inventions per technical field, and accumulate the number-of-inventions share per technical field and per enterprise powered by  $k_a$  (wherein  $k_a > 1$ ) for each enterprise having at least one invention in a predetermined technical field, thereby calculate the oligopoly score per technical field;

a function for making said oligopoly-emphasized score per technical field calculation means calculate the oligopoly-emphasized score per technical field by multiplying the number-of-inventions share per technical field and per enterprise and the oligopoly score per technical field;

a function for making said enterprise competitive position score calculation means accumulate the oligopoly-emphasized score per technical field for each technical field having at least one invention in a predetermined enterprise, thereby calculate the enterprise competitive position score;

a function for making said rate of increase of inventions acquisition means acquire the rate of increase in number of inventions in the predetermined enterprise and the rate of increase in number of inventions in all enterprises based on  
5 date information of the acquired technical documents;

a function for making said excess growth rate calculation means calculate the excess growth rate of the predetermined enterprise by subtracting the rate of increase in number of inventions in all enterprises from the rate of increase in  
10 number of inventions in the predetermined enterprise;

a function for making said enterprise competitive position index calculation means calculate the enterprise competitive position index by multiplying the enterprise competitive position score to a value obtained by adding 1 to  
15 the excess growth rate;

a function for making said standardized enterprise competitive position index calculation means calculate the standardized enterprise competitive position index through dividing the enterprise competitive position index by the  
20 number of technical fields; and

a function for making said output means output the standardized enterprise competitive position index to display means, printing means, recording medium, or another telecommunications device via a communication line.